DOCKET NO.: MSFT-0579/167505 02

Application No.: 09/934,071
Office Action Dated: June 15, 2004

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Christopher B. Weare

Confirmation No.: 7351

Application No.: 09/934,071

Group Art Unit: 2177

Filing Date: August 20, 2001

Examiner: Debbie M. Le

For: SYSTEM AND METHOD FOR PROVIDING ADAPTIVE MEDIA

PROPERTY CLASSIFICATION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

DECLARATION PURSUANT TO 37 C.F.R. 1.131

- I, Christopher B. Weare, declare and say that:
- 1. I am the sole inventor of the invention described and claimed in U.S Patent Application No. 09/934,071 (the above-identified application, hereinafter "the '071 application"), which was filed with the United States Patent and Trademark Office on August 20, 2001.
- 2. I understand that U.S. Provisional Application No. 60/216,423, filed on July 6, 2000, is the priority application to which the '071 application claims priority.
- 3. As sole inventor, I am familiar with the '071 application and the associated rejections alleged in the outstanding Official Action, dated June 15, 2004. I am also familiar with the references cited by the United States Patent and Trademark Office in connection with the outstanding Official Action, including U.S. Patent Application Publication No. US 2003/0014407 Al (hereinafter "Blatter") and U.S. Patent No. 5,918,223 (hereinafter "Blum").

DOCKET NO.: MSFT-0579/167505.02

Application No.: 09/034-031

PATENT

Application No.: 09/934,071
Office Action Dated: June 15, 2004

4. In particular, I understand that claims 1-15, 18-35 and 38-40 of the above-identified patent application were rejected under 35 U.S.C § 103(a) over Blatter and Blum.

- 5. I understand that Blatter was filed on April 11, 2002 and, as far as I am aware, is still pending before the U.S. Patent & Trademark Office.
- 6. I understand that Blatter claims priority to U.S. Provisional Application No. 60/282,885, filed on April 11, 2001, and while I have not examined the content of U.S. Provisional Application No. 60/282,885, I understand that April 11, 2001 is thus the earliest possible effective date to which the Blatter reference may be entitled.
- 7. In accordance with 37 CFR § 1.131, as inventor of the subject matter of the rejected claims, and without conceding the propriety of the outstanding rejections, I hereby declare that I invented the subject matter of the rejected claims prior to April 11, 2001, the earliest possible effective date of the Blatter reference, and thus I am the prior inventor as referred to in that Section.
- 8. In particular, I am the prior inventor because I conceived of the invention represented by the rejected claims prior to April 11, 2001. Soon after my conception, with due diligence, on July 6, 2000, I constructively reduced the invention to practice by timely filing a provisional application with the United States Patent & Trademark Office to secure my patent rights.
- 9. As evidence of my prior conception, I made mention of the invention of the '071 application in a notebook (copies of the relevant notebook pages attached hereto) on May 25, 2000. The notebook pages were then signed and witnessed by a third party, Michael J. Carreno, currently a Microsoft employee.
- 10. Accordingly, it is my belief that the copies of the relevant pages from my notebook attached hereto evidence my possession of the invention described in the '071 application prior to April 11, 2001, thereby removing Blatter as an applicable reference.
- 11. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information or belief are believed to be true; and further that these statements were made with the knowledge that willful false

DOCKET NO.: MSFT-0579/167505.02

Application No.: 09/934,071

Office Action Dated: June 15, 2004

statements and the like so made are punishable by fine or by imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful statements may jeopardize the validity of the application, any patent issuing there upon, or any patent to which this verified statement is directed.

Date: 8/10/2004

Christopher B. Weare

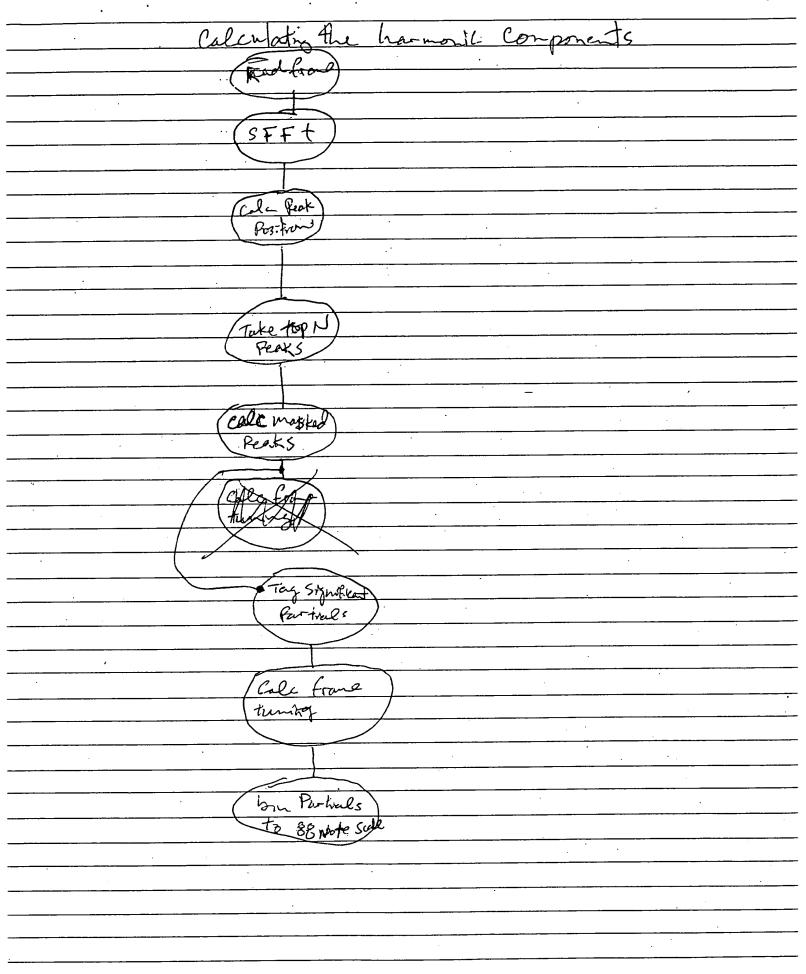
PATENT

harmonic is the partial description. Partials are & from the Signal via 8fft. the the partial emplitudes & altered vis dvis fletche—music curves as well as They are the assigned to notes.

Component

Rhytmic Information Contains tempo and hote one

Some contains the critical board energy on or fra



calculating the sonic companion read from of boten FF 5/16/00 use neural networks to map parameters to using newff with 30 hidden output layer we get an Stoden for W of 11860 for 4760 elements learn for snaggest 48 parameters run aguin with 50 parameters R= 0.67 for Density we get a 10.4 std with the above topology R= 0.593 it seems we need mar10's 4 l's. Network is brased towards ~ 50~60 Train vetwark en weeght + Density of first
600 alt-lock songs. R = 6.74 For data
Fun 601-701 three weet willing an R of
0.946; this Shows Excellent general toution 17/00 From Metwork for Heavy metal for 30 e pods we get Q= .714 for tousity weight and Q= 0.342 for Density

· ·	R= 0.633 for weight.
-	Tran wetwork with 100 Hillen nodes:
	R= 0.304 for weight
	D= 0.693 for Beneity
	Check general Fation!
	2 0.383 for weight
	D = 0.438 Car Donson
	Poor Generalitation.
	add too many neurons and the shot gets poop
	. 1
	Tran one un or all songs wit
	as an input to the uset.
	R= 0.647 for Density
	10 training Cps.
	R= 0.717 for weight
	eD stL = 9.8533
	ew.std = 11.1602
	3/18/00
	Create very data set with:
1.50	
608	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1-22 110-100 110-100 119-8.3 [0037-11,0] [0-30-13.3]
2	
2	after 20 trung Epochs stez . 532 for bensits
<u>v</u>	Std = 11.50
	after 40 training Epochs R= . 614 for idensit
	Ctd= 11.22
	generalization of wet:
	R = 0.501 for Dens ty
	Std = 10.7 -> Successful Generalization
	continue training
7	
	after 60 Epochs we get R=.623 800 4
	11.12 std
	Ceneralization:
	S.t.d.= 10.07 R=.504

· · · · · · · · · · · · · · · · · · ·
sin Necturark for Hiptop/ Rap after 20 Cpoils:
R= 0.539 for Density
R= 0.633 For weight.
an restrook with 100 Hillen nodes:
D- 03014 1- 2001t
R= 0.804 for weight
D= 0.693 for Bengity
Check generalitation!
2 0.383 for weight
N = 0.438 for Density Poor Generalization.
100 Colon Ballitation.
1 17 11 1 1 1
add too many new rus and the shot gets poopy.
Tran one un on all songe with genre wimber as an input to the uset.
as an input to the wet.
D= .0.647 for Density
D- 03 217 P 120 Pot
R= 0.717 for weight
eD stl = 9,8333
Elo-std = 11.1602
8/06
Create wew data set with:
7 3 4 8 6 7 8 9
ence ID Greens by Guzeight Coensity Density Std Cweight Coveryht Std En Casta Temp
-22 10-100 10-100 1.4-5.3 055)-11.03 0.58-13.3 D.53.71)
0:53:0:93)
10.56-094 131-25
4
ifter 20 training spez . 532 for bensity
3td= 11.513
Her 40 training Epochs R= . 614 for idensity
7td=11.22
generalization of wet:
R = 0.501 for pensity
to = 10.1 -> Successful Generalization
continue training
toanen

Classification Chain Colorithe 5/26/00 retrieve song to Data base start Yes Success Done some vector to Calculate Chain Response Equal Song Akorbute? to vew 877-757-5669 D 194-10 357 80-80-30 70-10 689 floo Patent meeting

5/31/00 Fun Classification Chain on 900 reputs with ove class over 3 newest neighbors Correct: 165 (47.41%) > 89.08% Off by 1: 145 (41.67%) Off by 2: 32 (9.20%)
Correct: 165 (47.41%) 39.08% Off by 1: 145 (41.67%)
ove class over 3 newest neighbors Cornect: 165 (47.41%) > 39.08% Off by 1: 145 (41.67%)
Cornect: 165 (47.41%) > 39.08% Off by 1: 145 (41.67%)
off by 1: 145 (41.67%)
off by 1: 145 (41.67%)
aH 1. a 2. a 2. a 3. a 4. a 3. a 3. a 4. a 3. a 4. a 5. a 5. a 5. a 6. a 6. a 6. a 6. a 7. a 8.
oft 6,03: 5 (1.44%)
olt by 4'- 1 (0.29%)
Tryged for QA 52 (13%)
run classification on 400 mpts with 216 tells
are class over 5 nearest weighbors
Cornect 171 (47.24%) > 91.16% Off by 1 189 (43.92%)
oft by 1 189 (43.92%)
oft by 2, 27 (146%)
oft by 3 4 (1.10%)
of by 5 1 (028%)
tagged for Q13 38 (9.5%)
Chang 3th Error from 15 to 14
Correct 167 (47.31%) > 91.5%
off by 1 156 (44.19%)
off by 2 26 (7.37%) > 8.5%
oft by 3 4 (1, 13%)
Tagged for QA 47 (11.75%)

.

<u>.</u>	
2	des a to 4
	run classification chain on goo monte with 2K cells
	ove class over 3 newest neighbors
	correct: 165 (47.41%) > 39.08%
	off by 1: 145 (41.67%)
	off h 2: 32 (9.20%)
	oft by 3: 5 (1.44%)
	alf his 4' 1 / 0.29 %
	Tagged for QH 52 (13%)
	run classification on 400 inputs with 2K- cells
	are class over & nearest weighbors
	Cornect 171 (47.24%) > 91.16%
	off by 1 189 (43.92%)
	olt by 2 27 (7.46%)
	of by 3 4 (1.10 %)
	of by 5 1 (028%)
•	tagged for AA 38 (9.5%)
	Chang 3td Error from 15 to 14
	Chang 87d broom 15 18 19
	Correct 167 (47.31%) > 91.5%
	off by 1 156 (44.18%)
	off by 2 26 (2.37 %) > 8.5 %
	oft by 3 4 [1, 13 %)
	Tagged for QA 47 (11. 75 %)
 	

- aidel Pitch Classification on Class of Hook is oxtented was BSf formation is Encoded the in whiteman Michaelflarre 1 2 B 3 4 5 B 9 Key; Gene ID, Rollyn; GD, GW, CDn, GDn, EB1 6/5/00 dynamic Time Warping toad training data pad decision tree vad data to be processe. Process data write data to disk sv-key, Density, wei

Human gidel Pitch Classification Michael J. Carreno 6/2/2000 Michaelflavous 1 2 & 9 4 5 B 9 30 37 54 Key; Gene TO, Rollyn; GD, GW, CDn, GDn, EB1 - EB24, &BS1-GBS24 integration of Processed data ito production sv-key, Densing, weight-